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मानक

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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

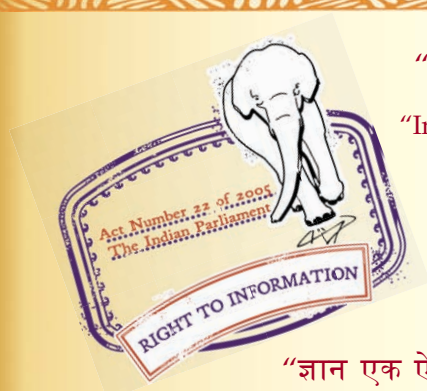
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

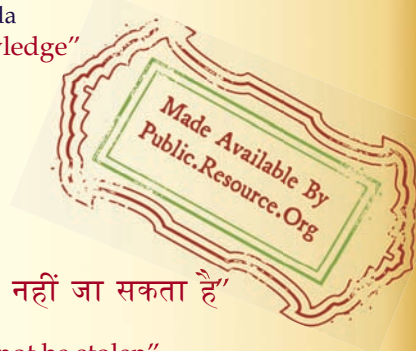
IS 8534-2 (1995): Mine tub couplings and drawbars, Part 2: C link and D-shackle type [MED 8: Mining Techniques and Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

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IS 8534 (Part 2) : 1995

भारतीय मानक

REAFFIRMED

खान टब युग्मन और कर्षण शलाकाएँ

भाग 2 सी-लिंक और डी-शैकल टाईप

(पहला पुनरीक्षण)

Indian Standard

MINE TUB COUPLINGS AND DRAWBARS

PART 2 C-LINK AND D-SHACKLE TYPE

(*First Revision*)

UDC 622-625-24-013

© BIS 1995

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

May 1995

Price Group 2

FOREWORD

This Indian Standard (Part 2) (First Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Mine Transportation Sectional Committee had been approved by the Heavy Mechanical Engineering Division Council.

This standard on mine tub couplings is one of the series of standards on mine tub couplings. Other parts of this standard are:

- IS 8534 (Part 1) : 1994 Mine tub couplings and drawbars : Part 1 General requirements (*first revision*)
- IS 8534 (Part 3) : 1995 Mine tub couplings and drawbars : Part 3 R-shackle and link type (*first revision*)
- IS 8534 (Part 4) : 1995 Mine tub couplings and drawbars : Part 4 F-shackle and link type (*first revision*)
- IS 8534 (Part 5) : 1995 Mine tub couplings and drawbars : Part 5 Drawbars
- IS 8534 (Part 6) : 1995 Mine tub couplings and drawbars : Part 6 Hook and D-shackle type

This standard (Part 2) was first published in 1977. It was covering requirements for hook and D-shackle type of coupling. Experience in the use of this coupling indicated that it is difficult to maintain a straight pull through drawbar of the tub. Hence, the use of this type of coupling is being discontinued and is being replaced by the coupling covered by this Indian Standard.

Other important change involved in this revised version is the application of only one size of coupling for use up to a safe working load of 50 kN. Earlier three different sizes for 10, 20 and 30 kN safe working load were specified in this standard.

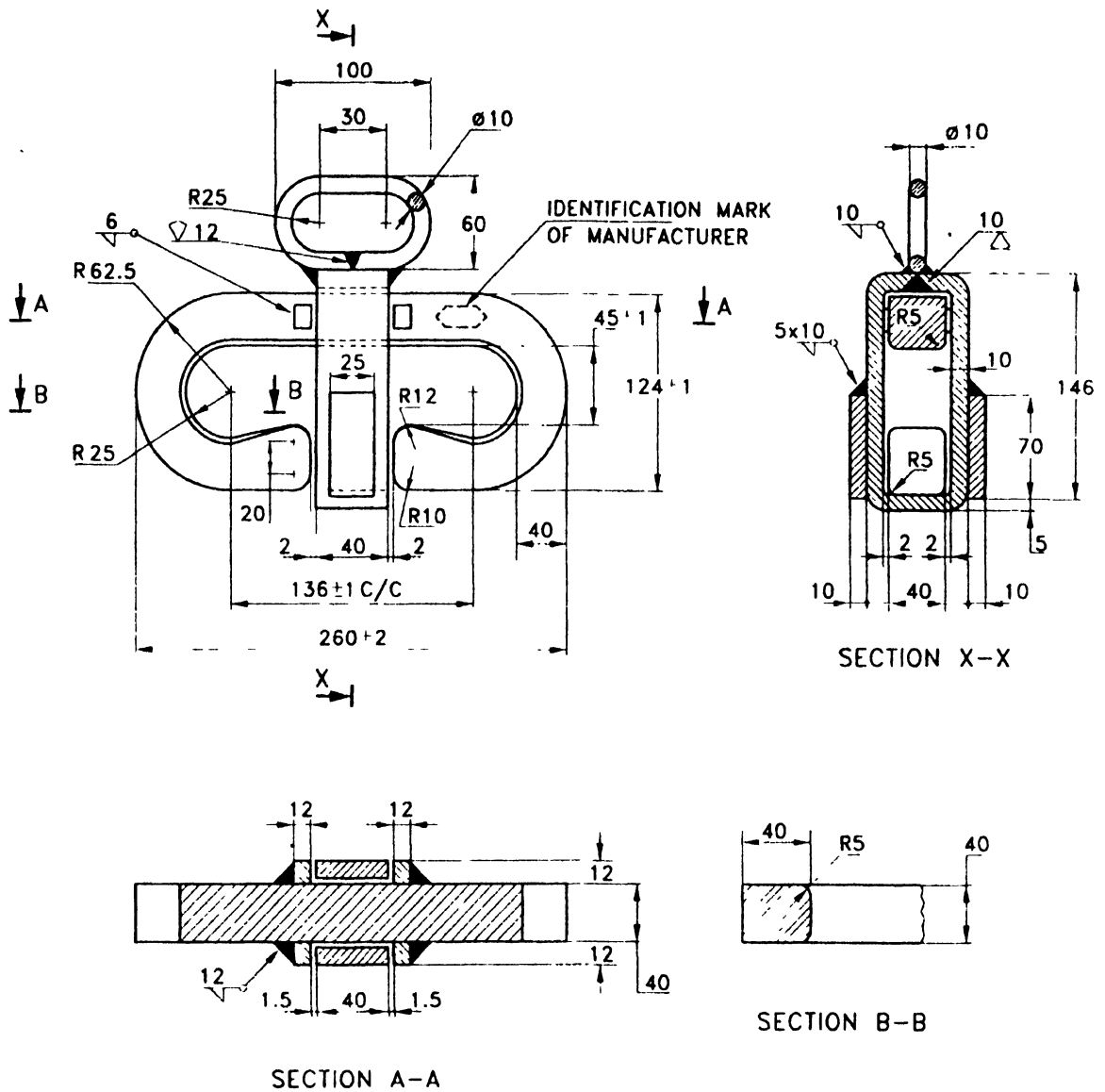
Couplings specified in this standard are recommended for use in conjunction with lapped type (Type A) drawbars specified in IS 8534 (Part 5) : 1995.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

**AMENDMENT NO. 1 JANUARY 2005
TO
IS 8534 (PART 2) : 1995 MINE TUB COUPLINGS AND DRAWBARS
PART 2 C-LINK AND D-SHAKLE TYPE**

(First Revision)

(Page 4, Fig. 4) — Substitute the following for the existing figure:



SECTION A-A

SECTION B-B

All dimensions in millimetres .

FIG. 4 C-LINK

*Indian Standard***MINE TUB COUPLINGS AND DRAWBARS****PART 2 C-LINK AND D-SHACKLE TYPE***(First Revision)***1 SCOPE**

This Indian Standard lays down the requirements for C-link and D-shackle type mine tub couplings used for connecting mine tubs in a set of tubs and having a maximum safe working load of 50 kN.

2 REFERENCE

The Indian Standard IS 8534 (Part 1) : 1994 'Mine tub couplings and drawbars: Part 1 General requirements (first revision)' is a necessary adjunct to this Indian Standard.

3 DIMENSIONS

3.1 Assembly and Nomenclature — See Fig. 1.

3.2 D-Shackle — See Fig. 2.

3.3 Pin of D-Shackle — See Fig. 3.

3.4 C-Link — See Fig. 4.

4 TOLERANCES

Tolerances on various components of the C-link and D-shackle type mine tub couplings shall be as follows:

<i>Component</i>	<i>Tolerance</i>
Link and shackle	+ 5 percent 0
Diameter of pins	— 0.1 mm — 0.25 mm
Pin holes	+ 1.0 mm 0

5 DESIGNATION

A mine tub coupling of C-link and D-shackle type conforming to this standard shall be designated as:

Tub Coupling, C-link and D-shackle type
IS 8534 (Part 2)

6 GENERAL REQUIREMENTS

Mine tub couplings of C-link and D-shackle type shall conform in all respects with IS 8534 (Part 1) : 1994.

7 MARKING

7.1 Each coupling shall be permanently and legibly marked on a non-vital component with the following information:

- Manufacturer's identification mark,
- Safe working load in kN,
- Type of heat treatment given, and
- Identification mark bearing with manufacturer's certificate of test and examination [see Annex A of IS 8534 (Part 1) : 1994]

7.1.1 The stamps used for marking shall be of 5 mm size. Care shall be taken that the indentation is neither too sharp nor excessive in depth.

7.2 BIS Certification Marking

The C-link and D-shackle type mine tub coupling may also be marked with Standard Mark.

7.2.1 The use of the Standard Mark is governed by the provisions of *Bureau of Indian Standards Act, 1986* and the Rules and Regulations made thereunder. The details of conditions under which the licence for the use of Standard Mark may be granted to manufacturers or producers may be obtained from the Bureau of Indian Standards.

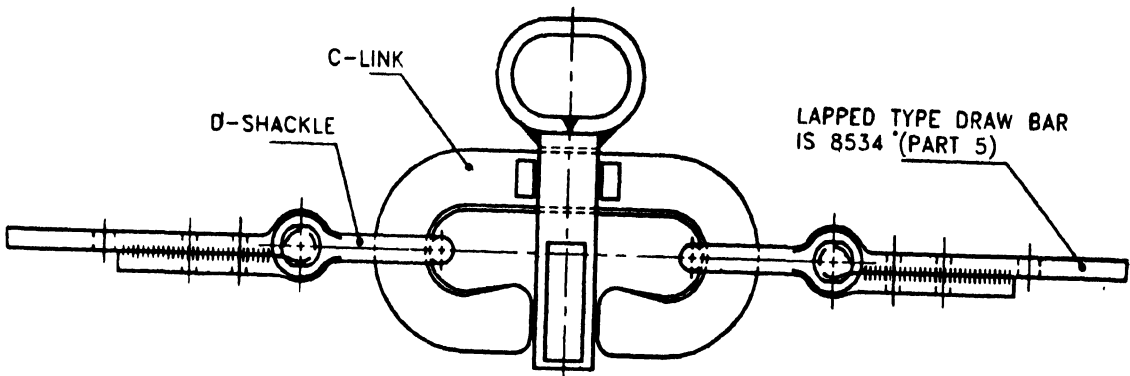
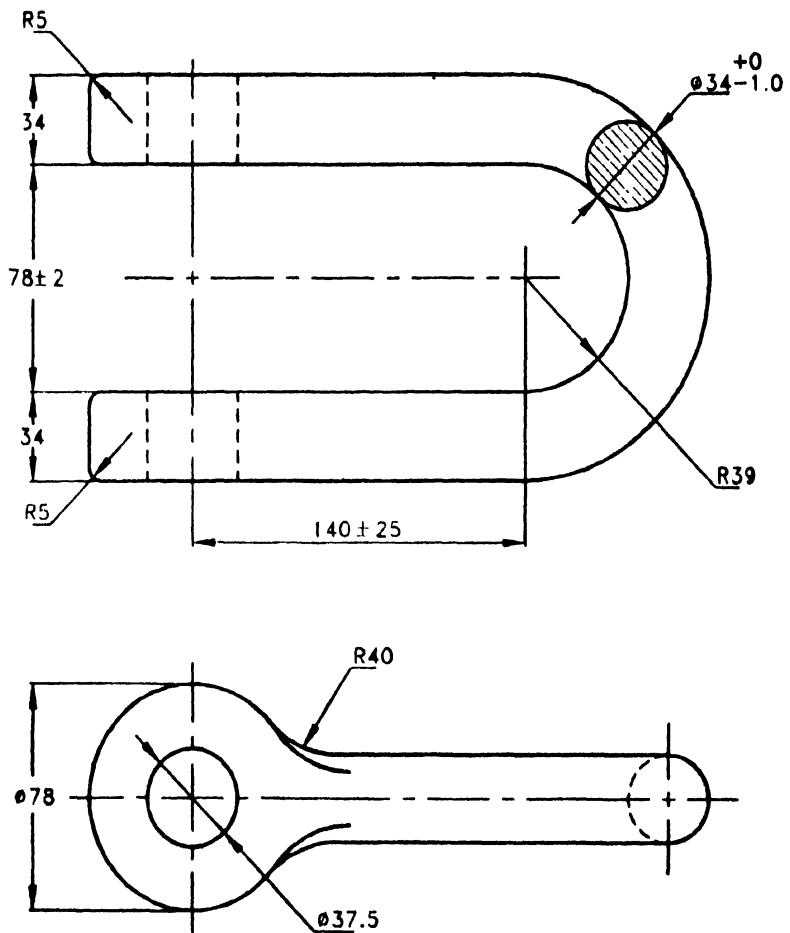
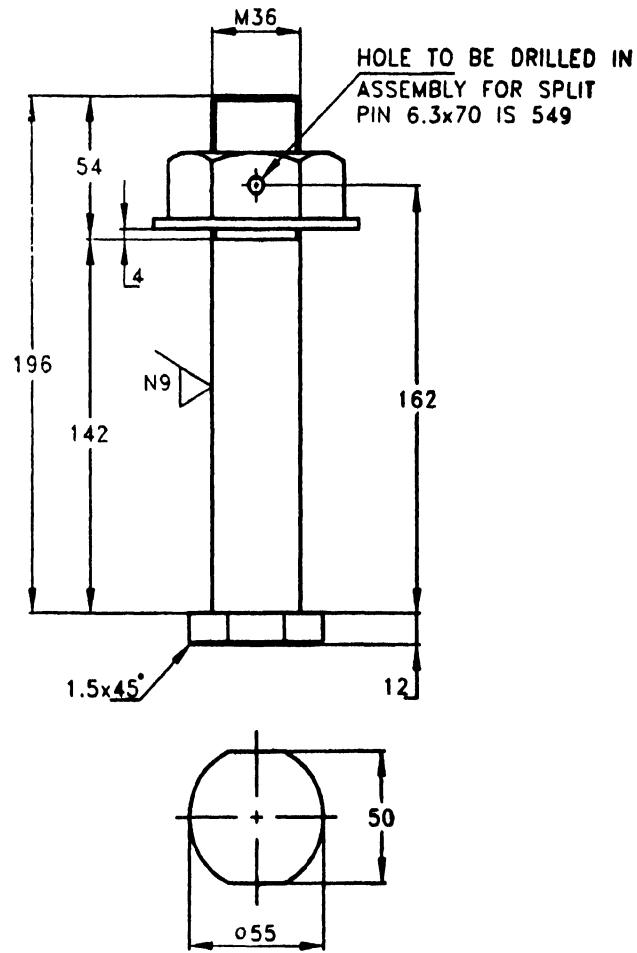


FIG. 1 ASSEMBLY AND NOMENCLATURE



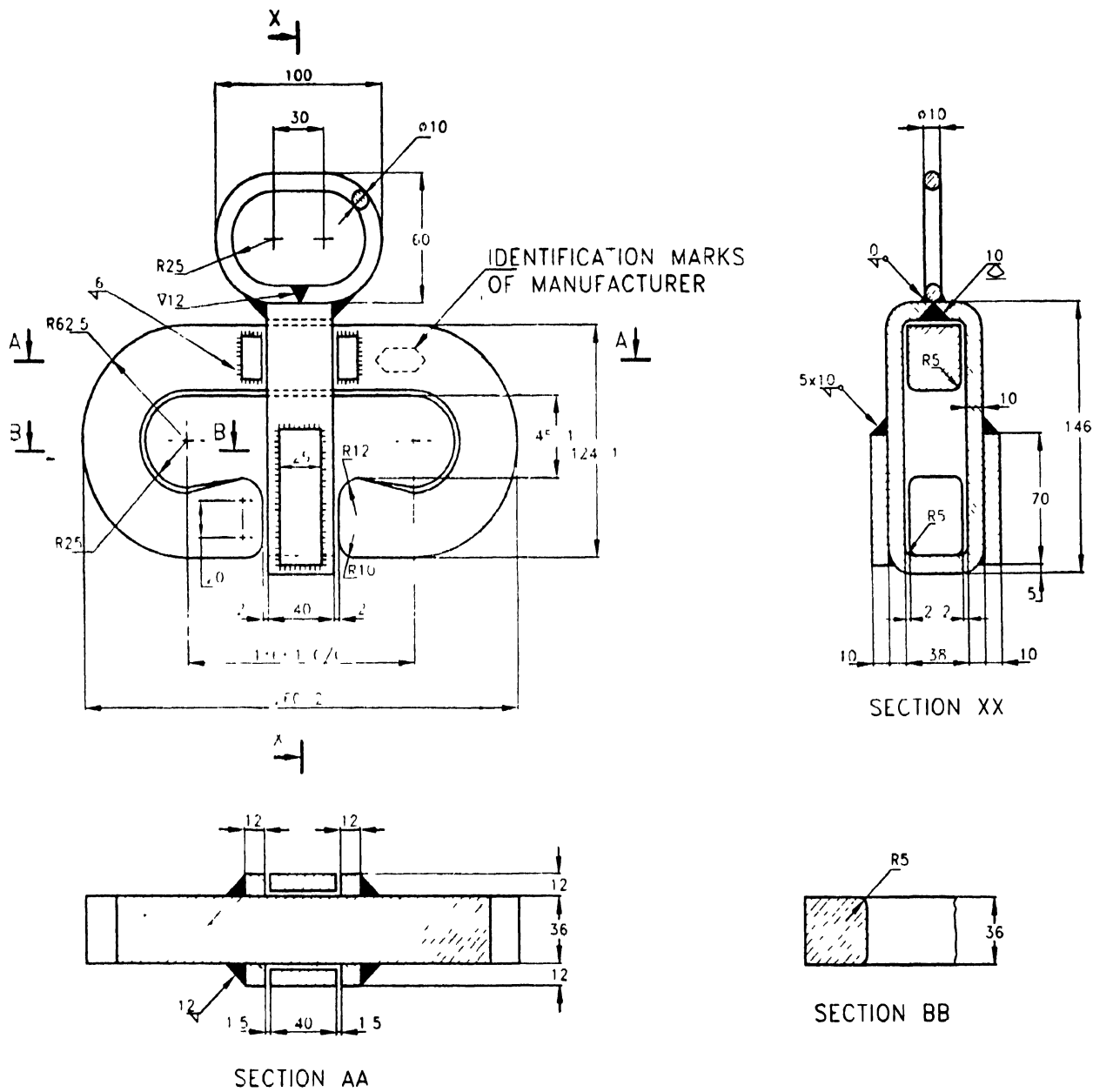
All dimensions in millimetres.

FIG. 2 D-SHACKLE



All dimensions in millimetres.

FIG. 3 PIN OF D-SHACKLE



All dimensions in millimetres.
FIG. 4 C-LINK

Bureau of Indian Standards

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Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition.

This Indian Standard has been developed from Doc No: HMD 8 (0046).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

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